

Amdt. dated August 16, 2005  
Reply to Office action of May 17, 2005

Serial No. 09/972,386  
Docket No. SJO920010037US1  
Firm No. 0037.0118

### REMARKS/ARGUMENTS

Claims 1-26 are pending in the application. Claims 1, 2, 3, 9, 10, 15, 20, and 21 have been amended. New claims 22-26 have been added. Reconsideration is respectfully requested. Applicant submits that the pending claims are patentable over the art of record and allowance is respectfully requested of claims 1-26.

Claims 1-21 are rejected under 35 U.S.C. 112. In particular rejections were identified for claims 1, 9, 10, 15, 20, and 21. Applicants have amended claims 1, 9, 10, 15, 20, and 21 to overcome the rejection and place the claims in better form.

Also, as to claims 9 and 21, the claims are directed to identification of a storage device for which storage device claiming is not to be blocked and for which storage device claiming had previously been blocked.

Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim (U.S. Pub. No. 2002/0069245) in view of Blumenau et al. (U.S. Patent No. 6,810,396). Applicants respectfully traverse.

Claim 1 describes, for example, a filter in communication with a port driver and a class driver, the filter intervening to block claiming of one or more of the storage devices by the class driver (e.g., Figure 36). The class driver issues a claim request to the port driver for a selected one of the storage devices, and the port driver issues a response to the class driver. The filter intercepts the response from the port driver, determines whether the selected storage device has been assigned to the selected digital data possessor, and, based on the determination, determines whether to allow the response from the port driver to pass to the class driver (e.g., Specification, pages 139-141).

The Office Action submits that the Kim patent application does not specifically teach a filter in communication with the port driver and the class driver, the filter intervening to block claiming of one or more selected storage devices by the class driver. The Kim patent application describes a disk class driver and a NAD port driver (Figure 20B). The disk class driver passes an IRP with an SRB to the NAD port driver and NAD bus driver, which deliver the CDB extracted from the SRB to the NIC to complete a device I/O to a NAD device (page 11, paragraph 145, Figure 23B). Also, the Kim patent application describes a NAD device is comprised of the NAD controller (page 5, paragraph 89) that executes I/O commands from the host's NAD device driver. A filter program can be installed on the NAD controller to provide

Amdt. dated August 16, 2005  
Reply to Office action of May 17, 2005

Serial No. 09/972,386  
Docket No. SJO920010037US1  
Firm No. 0037.0118

access control, access share, and access right transfer (page 6, paragraph 94). Thus, the filter program is installed on the NAD device, and the NAD device driver on the host can request to execute the filter program at the time of I/O command execution (page 6, paragraph 94). By teaching that the filter program is installed on the NAD controller of the NAD device and that the filter program is executed by a request from the NAD device driver on the host, the Kim patent application teaches away from the claimed filter driver, which is in communication with the class driver and port driver and which intercepts the response from the port driver. In addition, with the Kim patent application, there is no need for the filter program to intercept any response because the filter program execution is specifically requested. Also, the filter program of the Kim patent application does not determine whether to allow the response from the port driver to pass to the class driver.

The Blumenau patent describes a filter adapter unit that controls access to disk storage devices (Col. 3, line 62-Col. 4, line 2). The filter adapter unit uses a volume configuration management database (VCMD) (Col. 4, lines 30-31) that includes a filter table for determining which HBAs have access to which of the LUNs (Col. 4, lines 60-65). The filter adapter unit translates packets received from the network into data blocks for forwarding to disk adapters and performs a filtering function (Col. 5, lines 8-16). By teaching that the filter adapter performs the filtering, the Blumenau patent teaches away from the claimed filter driver, which is in communication with the class driver and port driver and which intercepts the response from the port driver.

Furthermore, the Office Action submits that the Kim patent application as modified does not specifically teach the filter blocks claiming by intercepting a request from the class driver to the port driver, but suggests that it would have been obvious. Applicants respectfully submit that because the Kim patent application and Blumenau patent describe filtering without intercepting claim requests, these references teach away from the claimed interception of claim requests and the claimed subsequent processing.

Thus, claim 1 is not taught or suggested by the Kim patent application or the Blumenau patent, either alone or in combination.

Dependent claims 2 and 4-9 incorporate the language of independent claim 1 and add additional novel elements. Therefore, dependent claims 2 and 4-9 are not taught or suggested by

Amdt. dated August 16, 2005  
Reply to Office action of May 17, 2005

Serial No. 09/972,386  
Docket No. SJO920010037US1  
Firm No. 0037.0118

the Kim patent application or the Blumenau patent, either alone or in combination, for at least the same reasons as were discussed with respect to claim 1.

Claim 10 describes, for example, the filter in communication with the port driver and the class driver, the filter intervening to block claiming of storage devices other than those identified by the manager digital data processor, the class driver issuing a claim request to the port driver for a selected one of the storage devices, the port driver issuing a response to the class driver, the filter blocking such claiming by intercepting the response from the port driver, determining whether the selected storage device has been assigned to the selected digital data possessor, and in response to determining that the selected storage device has not been assigned, returning a failure code to the class driver in response to its invocation of the port driver for purposes of claiming a storage device (e.g., Specification, pages 139-141). Claim 10 is not taught or suggested by the Kim patent application or the Blumenau patent, either alone or in combination, for at least the same reasons as were discussed with respect to claim 10.

Dependent claims 11-14 incorporate the language of independent claim 10 and add additional novel elements. Therefore, dependent claims 11-14 are not taught or suggested by the Kim patent application or the Blumenau patent, either alone or in combination, for at least the same reasons as were discussed with respect to claim 10.

Claim 15 describes, for example, the filter in communication with the port driver and the class driver, the filter intervening to block claiming of storage devices other than those identified by the manager digital data processor, the class driver issuing a claim request to the port driver for a selected one of the storage devices, the filter blocking such claiming by intercepting the claim request from the class driver to the port driver for purposes of claiming a storage device, wherein, in response to determining that the selected storage device has not been assigned to the selected digital data processor, the filter blocks the claim request to prevent the class driver from creating a device object for the selected storage device (e.g., Specification, pages 145-146). Neither the Kim patent application nor the Blumenau patent teach or suggest that a claim request from the class driver is intercepted. Instead, in the Kim patent application, filtering is performed when the filter program is executed by a request from the NAD device driver on the host. In the Blumenau patent, the filtering is performed by a filter adapter translates packets received from the network into data blocks for forwarding to disk adapters. Applicants respectfully submit that because the Kim patent application and Blumenau patent describe filtering without intercepting

Amdt. dated August 16, 2005  
Reply to Office action of May 17, 2005

Serial No. 09/972,386  
Docket No. SJO920010037US1  
Firm No. 0037.0118

claim requests, these references teach away from the claimed interception of claim requests and the claimed subsequent processing.

Thus, claim 15 is not taught or suggested by the Kim patent application or the Blumenau patent, either alone or in combination.

Dependent claims 16-19 incorporate the language of independent claim 15 and add additional novel elements. Therefore, dependent claims 16-19 are not taught or suggested by the Kim patent application or the Blumenau patent, either alone or in combination, for at least the same reasons as were discussed with respect to claim 15.

Claim 20 describes, for example, a filter in communication with the port driver, the filter intercepting the request packet from the plug-n-play manager to the port driver and blocking access to selected ones of the storage devices by determining which ones of the storage devices are to be masked and removing from the data structure at least selected data pertaining those determined storage devices, wherein removal of the selected data prevents the class driver from creating device objects for the determined storage devices (e.g., Specification, pages 146-148). Neither the Kim patent application nor the Blumenau patent teach or suggest intercepting the request packet from the plug-n-play manager to the port driver and blocking access to selected ones of the storage devices by determining which ones of the storage devices are to be masked and removing from the data structure at least selected data pertaining those determined storage devices, wherein removal of the selected data prevents the class driver from creating device objects for the determined storage devices. Applicants respectfully submit that because the Kim patent application and Blumenau patent describe filtering without intercepting request packets from a plug-n-play manager to the port driver, these references teach away from the claimed interception of request packets and the claimed subsequent processing.

Thus, claim 20 is not taught or suggested by the Kim patent application or the Blumenau patent, either alone or in combination.

Dependent claim 21 incorporates the language of independent claim 20 and adds additional novel elements. Therefore, dependent claim 21 is not taught or suggested by the Kim patent application or the Blumenau patent, either alone or in combination, for at least the same reasons as were discussed with respect to claim 20.

Claim 22 describes, for example, a filter in communication with the port driver and the class driver, the filter intervening to block claiming of one or more of the storage devices by the

Amdt. dated August 16, 2005  
Reply to Office action of May 17, 2005

Serial No. 09/972,386  
Docket No. SJ0920010037US1  
Firm No. 0037.0118

class driver by intercepting a request packet having an associated data structure issued to the port driver and blocking access to selected ones of the storage devices by determining which ones of the storage devices are to be masked and removing from the data structure at least selected data pertaining those determined storage devices, wherein removal of the selected data prevents the class driver from creating device objects for the determined storage devices (e.g., Specification, page 146-148). Applicants respectfully submit that because the Kim patent application and Blumenau patent describe filtering without intercepting request packets from a plug-n-play manager to the port driver, these references teach away from the claimed interception of request packets and the claimed subsequent processing.

Claims 23-26 are not taught or suggested by the Kim patent application or the Blumenau patent, either alone or in combination, for at least the same reasons as were discussed with respect to claims 1 and 22.

Amdt. dated August 16, 2005  
Reply to Office action of May 17, 2005

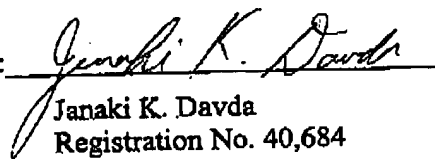
Serial No. 09/972,386  
Docket No. SJO920010037US1  
Firm No. 0037.0118

### Conclusion

For all the above reasons, Applicant submits that the pending claims 1-26 are patentable over the art of record. Applicants have not added any claims. Nonetheless, should any additional fees be required, please charge Deposit Account No. 09-0466.

The attorney of record invites the Examiner to contact her at (310) 553-7973 if the Examiner believes such contact would advance the prosecution of the case.

Dated: August 16, 2005

By:   
Janaki K. Davda  
Registration No. 40,684

Please direct all correspondences to:

David Victor  
Konrad Raynes & Victor, LLP  
315 South Beverly Drive, Ste. 210  
Beverly Hills, CA 90212  
Tel: 310-553-7977  
Fax: 310-556-7984